

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.

TANG, Y. Tom

CORLEY, Neil C.

GUEGLER, Karl J.

GORGONE, Gina A.

AZIMZAI, Yalda

KASER, Matthew R.

YUE, Henry

<120> COENZYME A-UTILIZING ENZYMES

<130> PF-0622 PCT

<140> To Be Assigned

<141> Herewith

<150> 09/185,217; unassigned

<151> 1998-11-03; 1998-11-03

<160> 10

<170> PERL Program

<210> 1

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1580751CD1

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Asn	Val	His	Glu	Lys	Lys	Leu	Gly	Asp	Lys	Val	Ala	Phe	Tyr	Trp
			20						25					30
Pro	Cys	Gln	Arg	Asp	Gln	Asp	Gly	Tyr	Tyr	Trp	Ile	Thr	Gly	Arg
			35						40					45
Ile	Asp	Asp	Met	Leu	Asn	Val	Ser	Gly	Glu	Gly	Gln	Gly	Pro	Pro
			50						55					60
Ser	His	Leu	Ile	Asn	Ser	Ala	Pro	Leu	Thr	Thr	Pro	Ser	Arg	Ser
			65						70					75
Leu	Pro	Gln	Glu	Pro	Arg	Ser	Val	Leu	Trp	Pro	Asp	His	Val	Leu
			80						85					90
Ser	Val	Ala	Phe	Ser	Ser	Gly	Pro	Arg	Phe					
			95						100					

<210> 2

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1627889CD1

<400> 2

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Met Ser Gly Gln Gly Val Asp Arg His Leu Phe Ala Leu Tyr Ile
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Val Ser Arg Phe Leu His Leu Gln Ser Pro Phe Leu Thr Gln Val
              20              25              30
His Ser Glu Gln Trp Gln Leu Ser Thr Ser Gln Ile Pro Val Gln
              35              40              45
Gln Met His Leu Phe Asp Val His Asn Tyr Pro Asp Tyr Val Ser
              50              55              60
Ser Gly Gly Gly Phe Gly Pro Ala Asp Asp His Gly Tyr Gly Val
              65              70              75
Ser Tyr Ile Phe Met Gly Asp Gly Met Ile Thr Phe His Ile Ser
              80              85              90
Ser Lys Lys Ser Ser Thr Lys Thr Asp Ser His Arg Leu Gly Gln
              95              100             105
His Ile Glu Asp Ala Leu Leu Asp Val Ala Ser Leu Phe Gln Ala
              110             115             120
Gly Gln His Phe Lys Arg Arg Phe Arg Gly Ser Gly Lys Glu Asn
              125             130             135
Ser Arg His Arg Cys Gly Phe Leu Ser Arg Gln Thr Gly Ala Ser
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Lys Ala Ser Met Thr Ser Thr Asp Phe
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<210> 3

<211> 215

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 1965888CD1

<400> 3

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Ser Glu Leu Leu Glu Thr Leu Ala Gln Leu Arg Glu Asp Arg Gln
              20              25              30
Val Arg Val Leu Leu Phe Arg Ser Gly Val Lys Gly Val Phe Cys
              35              40              45
Ala Gly Ala Asp Leu Lys Glu Arg Glu Gln Met Ser Glu Ala Glu
              50              55              60
Val Gly Val Phe Val Gln Arg Leu Arg Gly Leu Met Asn Asp Ile
              65              70              75
Ala Ser Ser Ala Val Met Gly Leu Ile Glu Thr Thr Arg Gly Leu
              80              85              90
Leu Pro Gly Ala Gly Gly Thr Gln Arg Leu Pro Arg Cys Leu Gly

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	95	100	105
Val Ala Leu Ala	Lys Glu Leu Ile Phe Thr Gly Arg Arg Leu Ser		
	110	115	120
Gly Thr Glu Ala	His Val Leu Gly Leu Val Asn His Ala Val Ala		
	125	130	135
Gln Asn Glu Glu	Gly Asp Ala Ala Tyr Gln Arg Ala Arg Ala Leu		
	140	145	150
Ala Gln Glu Ile	Leu Pro Gln Ala Pro Ile Ala Val Arg Leu Gly		
	155	160	165
Lys Val Ala Ile	Asp Arg Gly Thr Glu Val Asp Ile Ala Ser Gly		
	170	175	180
Met Ala Ile Glu	Gly Met Cys Tyr Ala Gln Asn Ile Pro Thr Arg		
	185	190	195
Asp Arg Leu Glu	Gly Met Ala Ala Phe Arg Glu Lys Arg Thr Pro		
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Lys Phe Val Gly	Lys		
	215		

<210> 4

<211> 720

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2816341CD1

<400> 4

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His Thr Ile Asn Pro	Ile Leu Leu Tyr Phe Ile His Phe Leu Ile	
	20	25 30
Ser Leu Tyr Thr Ile	Leu Thr Tyr Ile Pro Phe Tyr Phe Phe Ser	
	35	40 45
Glu Ser Arg Gln Glu	Lys Ser Asn Arg Ile Lys Ala Lys Pro Val	
	50	55 60
Asn Ser Lys Pro Asp	Ser Ala Tyr Arg Ser Val Asn Ser Leu Asp	
	65	70 75
Gly Leu Ala Ser Val	Leu Tyr Pro Gly Cys Asp Thr Leu Asp Lys	
	80	85 90
Val Phe Thr Tyr Ala	Lys Asn Lys Phe Lys Asn Lys Arg Leu Leu	
	95	100 105
Gly Thr Arg Glu Val	Leu Asn Glu Glu Asp Glu Val Gln Pro Asn	
	110	115 120
Gly Lys Ile Phe Lys	Lys Val Ile Leu Gly Gln Tyr Asn Trp Leu	
	125	130 135
Ser Tyr Glu Asp Val	Phe Val Arg Ala Phe Asn Phe Gly Asn Gly	
	140	145 150
Leu Gln Met Leu Gly	Gln Lys Pro Lys Thr Asn Ile Ala Ile Phe	
	155	160 165
Cys Glu Thr Arg Ala	Glu Trp Met Ile Ala Ala Gln Ala Cys Phe	
	170	175 180
Met Tyr Asn Phe Gln	Leu Val Thr Leu Tyr Ala Thr Leu Gly Gly	
	185	190 195

Pro Ala Ile Val	His Ala Leu Asn Glu Thr Glu Val Thr Asn Ile	200	205	210
Ile Thr Ser Lys	Glu Leu Leu Gln Thr Lys Leu Lys Asp Ile Val	215	220	225
Ser Leu Val Pro	Arg Leu Arg His Ile Ile Thr Val Asp Gly Lys	230	235	240
Pro Pro Thr Trp	Ser Glu Phe Pro Lys Gly Ile Ile Val His Thr	245	250	255
Met Ala Ala Val	Glu Ala Leu Gly Ala Lys Ala Ser Met Glu Asn	260	265	270
Gln Pro His Ser	Lys Pro Leu Pro Ser Asp Ile Ala Val Ile Met	275	280	285
Tyr Thr Ser Gly	Ser Thr Gly Leu Pro Lys Gly Val Met Ile Ser	290	295	300
His Ser Asn Ile	Ile Ala Gly Ile Thr Gly Met Ala Glu Arg Ile	305	310	315
Pro Glu Leu Gly	Glu Glu Asp Val Tyr Ile Gly Tyr Leu Pro Leu	320	325	330
Ala His Val Leu	Glu Leu Ser Ala Glu Leu Val Cys Leu Ser His	335	340	345
Gly Cys Arg Ile	Gly Tyr Ser Ser Pro Gln Thr Leu Ala Asp Gln	350	355	360
Ser Ser Lys Ile	Lys Lys Gly Ser Lys Gly Asp Thr Ser Met Leu	365	370	375
Lys Pro Thr Leu	Met Ala Ala Val Pro Glu Ile Met Asp Arg Ile	380	385	390
Tyr Lys Asn Val	Met Asn Lys Val Ser Glu Met Ser Ser Phe Gln	395	400	405
Arg Asn Leu Phe	Ile Leu Ala Tyr Asn Tyr Lys Met Glu Gln Ile	410	415	420
Ser Lys Gly Arg	Asn Thr Pro Leu Cys Asp Ser Phe Val Phe Arg	425	430	435
Lys Val Arg Ser	Leu Leu Gly Gly Asn Ile Arg Leu Leu Leu Cys	440	445	450
Gly Gly Ala Pro	Leu Ser Ala Thr Thr Gln Arg Phe Met Asn Ile	455	460	465
Cys Phe Cys Cys	Pro Val Gly Gln Gly Tyr Gly Leu Thr Glu Ser	470	475	480
Ala Gly Ala Gly	Thr Ile Ser Glu Val Trp Asp Tyr Asn Thr Gly	485	490	495
Arg Val Gly Ala	Pro Leu Val Cys Cys Glu Ile Lys Leu Lys Asn	500	505	510
Trp Glu Glu Gly	Gly Tyr Phe Asn Thr Asp Lys Pro His Pro Arg	515	520	525
Gly Glu Ile Leu	Ile Gly Gly Gln Ser Val Thr Met Gly Tyr Tyr	530	535	540
Lys Asn Glu Ala	Lys Thr Lys Ala Asp Phe Phe Glu Asp Glu Asn	545	550	555
Gly Gln Arg Trp	Leu Cys Thr Gly Asp Ile Gly Glu Phe Glu Pro	560	565	570
Asp Gly Cys Leu	Lys Ile Ile Asp Arg Lys Lys Asp Leu Val Lys	575	580	585
Leu Gln Ala Gly	Glu Tyr Val Ser Leu Gly Lys Val Glu Ala Ala	590	595	600
Leu Lys Asn Leu	Pro Leu Val Asp Asn Ile Cys Ala Tyr Ala Asn			

	605		610		615
Ser Tyr His Ser	Tyr Val Ile Gly Phe	Val Val Pro Asn Gln Lys			
	620		625		630
Glu Leu Thr Glu	Leu Ala Arg Lys Lys	Gly Leu Lys Gly Thr Trp			
	635		640		645
Glu Glu Leu Cys	Asn Ser Cys Glu Met	Glu Asn Glu Leu Leu Lys			
	650		655		660
Val Leu Ser Glu	Ala Ala Ile Ser Ala	Ser Leu Glu Lys Phe Glu			
	665		670		675
Ile Leu Val Lys	Ile Arg Leu Ser Pro	Glu Pro Trp Thr Pro Glu			
	680		685		690
Thr Gly Leu Val	Thr Asp Ala Phe Lys	Leu Lys Arg Lys Glu Leu			
	695		700		705
Lys Thr His Tyr	Gln Ala Asp Ile Glu	Arg Met Tyr Gly Arg Lys			
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<210> 5

<211> 456

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3324214CD1

<400> 5

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	20	25 30
Ile Val Pro Ala Ile Phe Gly Val Ser	Phe Gly Ile Arg Lys Leu	
	35	40 45
Tyr Met Lys Ser Leu Leu Lys Ile Phe	Ala Trp Ala Thr Leu Arg	
	50	55 60
Met Glu Arg Gly Ala Lys Glu Lys Asn	His Gln Leu Tyr Lys Pro	
	65	70 75
Tyr Thr Asn Gly Ile Ile Ala Lys Asp	Pro Thr Ser Leu Glu Glu	
	80	85 90
Glu Ile Lys Glu Ile Arg Arg Ser Gly	Ser Ser Lys Ala Leu Asp	
	95	100 105
Asn Thr Pro Glu Phe Glu Leu Ser Asp	Ile Phe Tyr Phe Cys Arg	
	110	115 120
Lys Gly Met Glu Thr Ile Met Asp Asp	Glu Val Thr Lys Arg Phe	
	125	130 135
Ser Ala Glu Glu Leu Glu Ser Trp Asn	Leu Leu Ser Arg Thr Asn	
	140	145 150
Tyr Asn Phe Gln Tyr Ile Ser Leu Arg	Leu Thr Val Leu Trp Gly	
	155	160 165
Leu Gly Val Leu Ile Arg Tyr Cys Phe	Leu Leu Pro Leu Arg Ile	
	170	175 180
Ala Leu Ala Phe Thr Gly Ile Ser Leu	Leu Val Val Gly Thr Thr	
	185	190 195
Val Val Gly Tyr Leu Pro Asn Gly Arg	Phe Lys Glu Phe Met Ser	
	200	205 210

Lys	His	Val	His	Leu	Met	Cys	Tyr	Arg	Ile	Cys	Val	Arg	Ala	Leu	
				215					220					225	
Thr	Ala	Ile	Ile	Thr	Tyr	His	Asp	Arg	Glu	Asn	Arg	Pro	Arg	Asn	
				230					235					240	
Gly	Gly	Ile	Cys	Val	Ala	Asn	His	Thr	Ser	Pro	Ile	Asp	Val	Ile	
				245					250					255	
Ile	Leu	Ala	Ser	Asp	Gly	Tyr	Tyr	Ala	Met	Val	Gly	Gln	Val	His	
				260					265					270	
Gly	Gly	Leu	Met	Gly	Val	Ile	Gln	Arg	Ala	Met	Val	Lys	Ala	Cys	
				275					280					285	
Pro	His	Val	Trp	Phe	Glu	Arg	Ser	Glu	Val	Lys	Asp	Arg	His	Leu	
				290					295					300	
Val	Ala	Lys	Arg	Leu	Thr	Glu	His	Val	Gln	Asp	Lys	Ser	Lys	Leu	
				305					310					315	
Pro	Ile	Leu	Ile	Phe	Pro	Glu	Gly	Thr	Cys	Ile	Asn	Asn	Thr	Ser	
				320					325					330	
Val	Met	Met	Phe	Lys	Lys	Gly	Ser	Phe	Glu	Ile	Gly	Ala	Thr	Val	
				335					340					345	
Tyr	Pro	Val	Ala	Ile	Lys	Tyr	Asp	Pro	Gln	Phe	Gly	Asp	Ala	Phe	
				350					355					360	
Trp	Asn	Ser	Ser	Lys	Tyr	Gly	Met	Val	Thr	Tyr	Leu	Leu	Arg	Met	
				365					370					375	
Met	Thr	Ser	Trp	Ala	Ile	Val	Cys	Ser	Val	Trp	Tyr	Leu	Pro	Pro	
				380					385					390	
Met	Thr	Arg	Glu	Ala	Asp	Glu	Asp	Ala	Val	Gln	Phe	Ala	Asn	Arg	
				395					400					405	
Val	Lys	Ser	Ala	Ile	Ala	Arg	Gln	Gly	Gly	Leu	Val	Asp	Leu	Leu	
				410					415					420	
Trp	Asp	Gly	Gly	Leu	Lys	Arg	Glu	Lys	Val	Lys	Asp	Thr	Phe	Lys	
				425					430					435	
Glu	Glu	Gln	Gln	Lys	Leu	Tyr	Ser	Lys	Met	Ile	Val	Gly	Asn	His	
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Lys	Asp	Arg	Ser	Arg	Ser										
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<210> 6

<211> 687

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 63

<223> a or g or c or t, unknown, or other

<220>

<221> misc_feature

<223> Incyte ID No: 1580751CB1

<400> 6

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cgaggtcagc cgctccgcgc acgtcccctc gctgcagcgc taccgcgagc tgcaccggcg 180
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tgagtggatg aaaggagcaa ctaccaacat ctgctacaat gtactggatc gaaatgtcca 360
tgagaaaaag cttggagata aagttgcttt ttactggcct tgccagcggg accaggatgg 420
ctattactgg atcactggca ggattgatga catgctcaat gtatctgggt agggccaggg 480
gccaccttcc catcttatta actctgctcc tctgacaaca cccagccgaa gccttccgca 540
agagcccagg agtgtccttt ggccagacca tgtactaagt gtagcattca gttctggggc 600
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<210> 7

<211> 1803

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1627889CB1

<400> 7

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gtgctcagac taaagctttt ctttatacgg gggttcatgt tggtaaaaat ccattgaatt 180
atatacgtag gattttttgaa cttattttcta taaagtttta tatttcaata aaaagcctaa 240
agatatatat atattatttt ccatacatga caagtattgt atcatatata ctatttttga 300
acttattcct ataaaatggt atattttcaat aaaaactgac agatatatta cattattttc 360
catccatgac aagtattatt atatcataca tgcatttttt tttttttttt ttttttttga 420
gatggagttt cgcttggtgc ccaggctgga gtgcaatggc gccatctcgg cccaccgcaa 480
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aaa                                                         1803

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<210> 8

<211> 1340

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1965888CB1

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gcgggtccgg accaagttta caagtccttc cactttctct ctgaggcaga aagagcaagg 180
gtttttctct ccattttatg gttgggaaaa ttgaggcctg cctgagtgtg tgacttgttg 240
caagtcactc tggatcatc gggcagaggc tccccagatc ccaggcctcc tgcctccagt 300
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cttacaggga tcatgagat tctgatgaac agaccttctg cccgcaatgc cttggggaat 420
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<210> 9
<211> 4027
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2816341CB1

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cagctgtaac atttgccacc ctcagaagct gctggctcctg tgtcacacca ccttagcctc 360
ttgatcgagg aagattctcg ctgaagtctg ttaattctac tttttgagta cttatgaata 420
accacgtgtc ttcaaaacca tctaccatga agctaaaaca taccatcaac cctattcttt 480
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aacctgattc tgcatacaga tctgttaata gtttggtggg tttggcttca gtattatacc 660

ctggatgtga	tacttttagat	aaagttttta	catatgcaaa	aaacaaat	aagaacaaaa	720
gactcttggg	aacacgtgaa	gttttaaatg	aggaagatga	agtacaacca	aatggaaaaa	780
tttttaaaaa	ggttattctt	ggacagtata	attggctttc	ctatgaagat	gtctttgttc	840
gagcctttta	ttttggaaat	ggattacaga	tgttgggtca	gaaaccaaa	accaacatcg	900
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aaattaaaaa	aggaagcaaa	ggggatacat	ccatgttgaa	accaacactg	atggcagcag	1560
ttccggaaat	catggatcgg	atctacaaaa	atgtcatgaa	taaagtcagt	gaaatgagta	1620
gttttcaacg	taatctgttt	attctggcct	ataattacaa	aatggaacag	atttcaaaag	1680
gacgtaatac	tccactgtgc	gacagctttg	ttttccggaa	agttcgaagc	ttgctagggg	1740
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